

ANNUAL REPORT
OF THE
DEPARTMENT OF SANITATION
OF THE
ISTHMIAN CANAL COMMISSION
1909

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ANNUAL REPORT

OF THE

DEPARTMENT OF SANITATION

OF THE

ISTHMIAN CANAL COMMISSION

FOR THE

YEAR 1909

W. C. GORGAS

Colonel, Medical Corps, U. S. Army
Chief Sanitary Officer, Ancon, Canal Zone

WASHINGTON

GOVERNMENT PRINTING OFFICE

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LETTER OF TRANSMITTAL.

ISTHMIAN CANAL COMMISSION,
DEPARTMENT OF SANITATION,
Ancon, Canal Zone, January 18, 1910.

CHAIRMAN AND CHIEF ENGINEER
ISTHMIAN CANAL COMMISSION,
Culebra, Canal Zone.

SIR: Inclosed I forward you herewith report of the sanitary department for the calendar year 1909.

In comparing the vital statistics with previous years we can see considerable improvement.

	Number of employees.	Deaths.	Rate.
1904.....	6, 213	82	13. 26
1905.....	16, 512	427	25. 86
1906.....	26, 547	1, 105	41. 73
1907.....	39, 238	1, 131	28. 74
1908.....	43, 891	571	13. 01
1909.....	47, 167	502	10. 64

There were fewer white employees than in 1908. This is the smallest death rate we have had in our laboring force. The total number of deaths in the year 1909 in a force of 47,167 men was very little more than it was in 1905 in a force of 16,512 men.

The death rate among our white employees from the United States from disease was 3.88 per thousand. The death rate in our army for the calendar year 1908 from disease was 3.20 per thousand; practically the same as ours. If we include American women and children, it will raise the death rate of Americans from disease to 4.05 per thousand. It would seem from these figures that the women and children stand the climatic conditions very much better than the men do. Among 3,240 white women and children from the United States we had a death rate from disease of 4.32. The rate among women and children in any of the cities at home would be very much higher than this.

Taking special diseases, the deaths from typhoid fever among our employees have been:

	Deaths.
1905.....	12
1906.....	42
1907.....	98
1908.....	19
1909.....	13

This is an excellent rate—about 0.27 per thousand. That of the whole army for the calendar year 1908 was 0.31 per thousand; for the State of Pennsylvania for the calendar year 1907, 5.03 per thousand.

Considering dysentery, we have had among our employees from this disease the following deaths:

	Deaths.
1905.....	14
1906.....	69
1907.....	48
1908.....	16
1909.....	8

Among our 11,662 white employees we had not a single death from this disease.

Considering pneumonia, we had a smaller death rate than has occurred any previous year.

	Deaths.
1905.....	95
1906.....	413
1907.....	328
1908.....	93
1909.....	70

This would be about the same rate that would occur in New York City from this disease.

Considering deaths from malaria among employees, we see the following figures:

	Deaths.
1905.....	86
1906.....	233
1907.....	154
1908.....	73
1909.....	52

The death rate from malaria is probably the best measure of the success of sanitary work in the Tropics. The admission rate to our hospitals was:

	Per thousand.
1904.....	125
1905.....	514
1906.....	821
1907.....	424
1908.....	282
1909.....	215

This means that in 1906, when malaria was at its highest, out of every thousand employees we had 821 admitted to our hospitals with malaria. In 1909 we had only 215 out of every thousand admitted to our hospitals. That is, 606 men out of every thousand escaped malaria in 1909 who would have had it had the conditions remained the same as in 1906.

If we consider the death rate of the total population, including the cities of Panama and Colon and the country on the Zone between them, we find the rates for the different years to be as follows:

	Death rate.
1905.....	49.94
1906.....	48.37
1907.....	33.63
1908.....	24.83
1909.....	18.19

That is, out of every thousand people living on the Zone in 1909 we had 31 deaths less than we had out of this same thousand people living on the Isthmus in 1905. This means a saving of over 4,000 lives.

During the year no cases of yellow fever, plague, or smallpox occurred on the Isthmus.

Very respectfully,

W. C. GORGAS,
Chief Sanitary Officer.



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ANNUAL REPORT

OF THE

DEPARTMENT OF HEALTH, ISTHMIAN CANAL COMMISSION,

FOR THE YEAR 1909.

VITAL STATISTICS.

DEATHS OF EMPLOYEES OF THE ISTHMIAN CANAL COMMISSION AND THE PANAMA RAILROAD.

Color.	Average number of employees.	Total number of deaths from—			Annual death rate per 1,000.		
		Dis-ease.	Vio-lence.	All.	Dis-ease.	Vio-lence.	All.
White.....	11,662	75	40	115	6.43	3.43	9.86
Black.....	35,505	281	106	387	7.91	2.99	10.90
Total.....	47,167	356	146	502	7.55	3.09	10.64

DEATHS IN THE CITIES OF PANAMA AND COLON AND THE CANAL ZONE.

Place.	Average population.	Total deaths.	Annual death rate per 1,000.
Panama.....	40,801	1,038	25.44
Colon.....	17,479	396	22.65
Canal Zone.....	76,900	1,025	13.33
Total.....	135,180	2,459	18.19

NOTE.—Figures relating to the number of employees are compiled from the pay rolls of the different months of the year. The population and deaths as given for the cities of Panama and Colon and for the Canal Zone in the table above include employees and civil population.

Total number of admissions of employees to hospitals and sick camps, including those sick in quarters..... 41, 849
 Average per thousand of admissions of employees to hospitals and sick camps, including those sick in quarters.. 887

DEATHS BY AGE, COLOR, AND SEX.

Age.	White.		Black.		Yellow.		Total.	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1 year.....	72	47	303	215	2	1	377	263
1 to 4 years.....	16	18	55	46	.....	.....	71	64
5 to 10 years.....	5	2	29	26	.....	.....	34	28
11 to 20 years.....	12	6	70	32	2	.....	84	38
21 to 30 years.....	60	13	340	117	2	.....	402	130
31 to 40 years.....	74	13	199	106	10	.....	283	119
41 to 50 years.....	53	9	159	48	7	.....	219	57
51 to 60 years.....	18	9	67	33	5	.....	90	42
61 to 70 years.....	6	6	36	17	6	.....	48	23
71 to 80 years.....	5	4	7	14	.....	.....	12	18
81 to 90 years.....	1	1	6	7	.....	.....	7	8
91 to 100 years.....	.....	.....	.....	1	.....	.....	.....	1
Unknown.....	6	1	27	6	1	.....	34	7
Total.....	328	129	1,298	668	35	1	1,661	798

DEATHS BY NATIONALITY.

Nations.	Em- ployees.	Nonem- ployees.	Total.
Antigua.....	10	9	19
Bahama Islands.....	1	.....	1
Barbados.....	150	125	275
Bolivia.....	1	1	2
Bermuda Islands.....	.....	1	1
Bulgaria.....	1	.....	1
Chile.....	.....	6	6
China.....	.....	36	36
Colombia.....	11	126	137
Costa Rica.....	4	16	20
Cuba.....	.....	6	6
Dutch West Indies.....	1	1	2
Dominica.....	1	2	3
Ecuador.....	1	3	4
England.....	2	8	10

DEATHS BY NATIONALITY—Continued.

Nations.	Em- ployees.	Nonem- ployees.	Total.
Fortune Island.....	3	.....	3
France.....	.....	10	10
Germany.....	.....	3	3
Greece.....	3	1	4
Grenada.....	2	13	15
Guadeloupe.....	24	8	32
Guatemala.....	.....	1	1
Guiana, British.....	2	4	6
Haiti.....	2	2	4
Honduras, British.....	.....	7	7
Holland.....	.....	1	1
India.....	.....	1	1
Italy.....	6	5	11
Jamaica.....	108	388	496
Liberia.....	1	.....	1
Martinique.....	25	47	72
Mexico.....	3	8	11
Montserrat.....	4	7	11
Nicaragua.....	.....	4	4
Panama.....	18	920	938
Peru.....	1	4	5
Porto Rico.....	.....	4	4
Portugal.....	.....	2	2
St. Kitts.....	1	2	3
St. Lucia.....	6	42	48
St. Thomas.....	.....	4	4
St. Vincent.....	2	4	6
Spain.....	59	36	95
Syria.....	.....	3	3
Trinidad.....	7	18	25
Turkey.....	1	.....	1
Turks Island.....	1	.....	1
United States.....	35	44	79
Uruguay.....	.....	1	1
Venezuela.....	1	2	3
West Indies.....	2	14	16
Wales.....	.....	1	1
Unknown.....	2	6	8
Total.....	502	1, 957	2, 459

CAUSES OF DEATH OF ISTHMIAN CANAL COMMISSION AND PANAMA
RAILROAD EMPLOYEES.

Diseases.	White.	Black.	Total.
Apoplexy.....		2	2
Aneurism, ruptured, into pericardial sac.....		1	1
Aneurism of abdominal aorta (rup- ture).....		1	1
Alcoholism, acute and chronic.....	4		4
Aortic insufficiency.....		1	1
Asphyxia, chloroform.....		1	1
Calculi, renal.....	1		1
Cancer of gall bladder.....		1	1
Cancer of stomach.....	3	1	4
Cancer of tongue (inoperable).....		1	1
Cholecystitis, acute gangrenous.....		1	1
Colitis, acute and chronic.....		2	2
Congestion and hemorrhage of the brain.....		2	2
Dislocation eleventh and twelfth dor- sal vertebræ, trophic ulcers on back, broncho-pneumonia.....		1	1
Dropsy.....		1	1
Dysentery.....		8	8
Embolism and thrombosis.....	1	1	2
Emphysema, pulmonary.....	1		1
Empyema.....		3	3
Encephalitis, acute hemorrhagic.....	1	1	2
Encephalomalacia, acute.....		1	1
Encephalon, abscess of.....		1	1
Endocarditis.....	1	2	3
Entero-colitis, acute.....		1	1
Fever:			
Hemoglobinuric.....	12	1	13
Malarial.....	14	25	39
Typhoid.....		13	13
Heart, acute rupture of.....	1		1
Heart, organic diseases of.....	1	9	10
Hemorrhage, cerebral.....	1		1
Influenza.....	1	1	2
Leukemia.....	1		1
Liver:			
Abscess of.....	4	3	7
Abscess of, multiple.....	1		1
Cyst of.....	1		1
Cirrhosis of.....	1		1

CAUSES OF DEATH OF ISTHMIAN CANAL COMMISSION AND PANAMA
RAILROAD EMPLOYEES—Continued.

Diseases.	White.	Black.	Total.
Lungs:			
Abscess of.....		2	2
Edema of.....	1		1
Gangrene of.....		1	1
Meningitis:			
Acute.....		1	1
Epidemic cerebro-spinal.....		3	3
Pneumococcic.....		2	2
Tuberculous.....		2	2
Mitral regurgitation.....	1		1
Myocarditis.....		3	3
Neck, cellulitis of.....		1	1
Nephritis:			
Acute.....	1	18	19
Chronic.....	1	31	32
Pericarditis.....	1	5	6
Peritonitis.....		6	6
Pneumonia.....	11	59	70
Psychosis, toxic.....		1	1
Puerperal sepsis.....		1	1
Pyelonephritis.....	1		1
Pyemia.....		1	1
Sarcoma of femur.....		1	1
Senility—myocarditis.....	1		1
Septicemia, purulent infection.....	3	3	6
Tuberculosis:			
General.....		3	3
Of spine (cervical).....		1	1
Pulmonary.....	2	48	50
Tumor of abdomen, malignant.....	1		1
Uremia.....	1		1
Undiagnosed.....		2	2
Violence:			
Accidental traumatisms, various....	8	20	28
Burns and scalds.....	1	1	2
Drowning, accidental.....	7	14	21
Dynamite explosions.....		13	13
Electric shock.....	1	3	4
Fractures.....	1		1
Homicides.....	2	2	4
Railroad accidents.....	19	53	72
Shock by lighting.....	1		1
Total.....	115	387	502

DEATHS OF WHITE EMPLOYEES FROM THE UNITED STATES.
JANUARY.

Name.	Department.	Time on Isthmus.	Age.	Cause of death.
Gamble, Bert.....	Engineering.....	44 months.	35	Liver abscess.
Nelson, R. J.....	Panama Rail- road.	3 years....	31	Hemorrhage, cerebral.
Petry, J. H.....	Engineering.....	do.....	61	Multiple abscess of liver.

FEBRUARY.

Murphy, James P...	Engineering.....	10 months.	.....	Railroad accident.
Putnam, James L...	do.....	23 months.	31	Tumor of abdomen, malignant.
Rodman, Willis J...	Panama Rail- road.	42 months.	46	Uremia, complicating amebic dysentery.

MARCH.

Aldrich, L. E.....	Engineering.....	8 months..	44	Liver abscess.
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APRIL.

Higgins, H. H.....	Engineering.....	2 years....	37	Delirium tremens, hyperpyrexia.
Lamb, William.....	Panama Rail- road.	28 months.	39	Fracture, struck on head by lever of hand car.
Whiteman, P. M....	Disbursing.....	2 years....	18	Shock, incident to burns.
Waldron, Fred A....	Sanitation.....	58 months.	70	Senility, myocarditis.

MAY.

Abbott, Charles M...	Mechanical.....	30 months.	22	Homicide, fractured 3d cervical vertebra.
Barbour, John H....	Engineering.....	54 months.	42	Alcoholism.
Kealy, Daniel.....	Quartermaster..	33 months.	32	Accidental drowning.
Miller, Robert.....	Engineering.....	48 months.	28	Fell from veranda.
McFarland, A. Y....	Quartermaster..	42 months.	38	Abscess of liver.

DEATHS OF WHITE EMPLOYEES FROM THE UNITED STATES—Con.

JUNE.

Name.	Department.	Time on Isthmus.	Age.	Cause of death.
Barbour, James W. . .	Panama Rail- road.	39 months.	27	Struck by flying emery wheel.
Debardeleben, M. V. . .	do.	48 months.	31	Nephritis, acute.
Howland, F. C.	Engineering.	18 months.	28	Septicemia, acute.
Kingsley, Eugen H. . .	do.	48 months.	28	Homicide, pistol.
Morris, John R.	do.	9 months.	38	Railroad accident.

JULY.

Hague, Joseph.	Engineering.	2 months.	41	Heart disease.
Ryan, John, ...	Mechanical.	11 months.	33	Lobar pneumonia.

AUGUST.

Coogan, Michael.	Engineering.	3 years.	39	Pyelonephritis.
Green, William B.	do.	28 months.	40	Chronic endocarditis with pericarditis.
Smith, Gordon B.	Panama Rail- road.	20 months.	22	Accidental drowning.
Williams, Edward R. . .	Engineering.	4 months.	23	Do.

SEPTEMBER.

Ball, H. C.	Quartermaster.	3 years.	52	Cerebral hemorrhage.
Lythgow, A. G.	Engineering.	4 years.	42	Hemoglobinuric fever.

OCTOBER.

Worrall, James C.		9 months.	25	Edema of lungs.
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NOVEMBER.

Edwards, Charles.	Engineering.	8 months.	39	Alcoholism.
Hawley, G. I.	do.	4 years.	48	Endocarditis, aortic re- gurgitation.
Hill, George.	do.	27 years.	59	Influenza, broncho- pneumonia.
Snyder, William.	do.	6 months.	44	Accidental traumatism (railroad).

DEATHS OF WHITE EMPLOYEES FROM THE UNITED STATES—Con.
DECEMBER.

Name.	Department.	Time on Isthmus.	Age.	Cause of death.
Hennigh, George A.	Engineering....	34 months.	22	Accidental drowning.

DEATHS OF WHITE WOMEN AND CHILDREN FROM THE UNITED STATES.

MARCH.

Name.	Time on Isthmus.	Age.	Cause of death.
Kennady, Mary E.....	1 day.....	1 day.....	Congenital debility. Asphyxiation—overlying. Railroad injuries.
Price, Lily.....	10 days.....	10 days.....	
Smith, Leroy.....		14 years.....	

APRIL.

Rogers, Mrs. W. D.....	2 years.....	32 years.....	Septic endocarditis.
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JUNE.

Kranz, Elizabeth.....	4 months....	2 years.....	Acute entero-colitis. Basilar meningitis. Diseases peculiar to early infancy.
Nugent, Margaret.....	10 days.....	10 days.....	
Rosen, child of Harry...	3 hours.....	3 hours.....	

JULY.

Hogan, Andrew.....	5½ months...	5½ months...	Intussusception, intestinal. Malarial fever.
Roark, Jane.....	10 months...	10 months...	

AUGUST.

Conner, Olive.....	17 months...	2½ years.....	Malarial fever. Pernicious fever. Senility. Chronic pachymeningitis.
Gutberlet (infant).....	9 months....	9 months....	
Humphrey, Harriet A...	2½ months...	71 years.....	
McKay, John.....	2½ years.....	2½ years.....	

DEATHS OF WHITE WOMEN AND CHILDREN FROM THE UNITED STATES—Continued.

OCTOBER.

Name.	Time on Isthmus.	Age.	Cause of death.
Tanner, Harold.....	2 months....	7 years.....	Accidental traumatism (fell from veranda).

NOVEMBER.

Bowers, Agnes.....	3½ months...	3½ months...	Chronic enteritis.
Cook, Nathan, jr.....	2 years.....	12 years.....	Acute gangrenous appendicitis with perforation.
Purcell, James J.....	4 months....	3 years.....	Accidental traumatism (burns).

DECEMBER.

Marsh (infant).....	13 days.....	13 days.....	Pemphigus.
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DEATH RATE AMONG AMERICANS ON THE ISTHMUS.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (average number, 5,146):		
Disease.....	20	3.88
Violence.....	15	2.92
All causes.....	35	6.80
White women and children from the United States (average number, 3,240):		
Disease.....	14	4.32
Violence.....	4	1.23
All causes.....	18	5.55
White employees and their families from the United States (average number, 8,386):		
Disease.....	34	4.05
Violence.....	19	2.27
All causes.....	53	6.32

CAUSES OF DEATH.

[This table embraces deaths among the civil population, and among the employees of the Isthmian Canal Commission and the Panama Railroad Company.]

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Panama.	Colon.	Zone.	Total.
<i>I. General diseases.</i>						
Typhoid fever (abdominal typhus).....	12	4	1	1	.....	18
Malarial fever.....	2	3	103	19	60	187
Estivo-autumnal malaria.....	33	7	25	2	17	84
Tertian malaria.....	.....	.....	.....	.....	1	1
Malarial cachexia.....	1	.....	5	.....	2	8
Hemoglobinuric fever.....	12	2	1	.....	.....	15
Measles.....	.....	.....	1	.....	.....	1
Whooping cough.....	.....	.....	4	.....	.....	4
Diphtheria.....	.....	.....	1	.....	.....	1
Influenza.....	1	1	7	.....	1	10
Dysentery.....	3	4	28	1	11	47
Bacillary dysentery.....	1	.....	1	.....	.....	2
Amebic dysentery.....	4	7	.....	1	1	13
Leprosy.....	1	.....	.....	.....	1	2
Erysipelas.....	.....	.....	1	.....	.....	1
Beriberi.....	.....	.....	21	2	.....	23
Purulent infection and septicemia.....	7	10	3	1	1	22
Pellagra.....	1	2	.....	.....	.....	3
Tuberculosis of the larynx.....	1	.....	1	.....	.....	2
Tuberculosis of the lungs.....	43	47	150	17	23	280
Tuberculosis of the meninges.....	1	1	.....	.....	.....	2
Abdominal tuberculosis.....	3	.....	2	1	.....	6
Pott's disease.....	1	.....	.....	.....	.....	1
General tuberculosis.....	6	1	.....	6	.....	13
Syphilis.....	.....	.....	6	2	2	10
Gonorrhea (5 years and over).....	.....	.....	1	.....	.....	1
Cancer and other malignant tumors of the buccal cavity.....	.....	1	2	.....	.....	3
Cancer and other malignant tumors of stomach and liver.....	5	.....	2	.....	1	8
Cancer and other malignant tumors of peri- toneum, intestines, and rectum.....	1	.....	.....	.....	.....	1
Cancer and other malignant tumors of the female genital organs.....	1	1	9	.....	1	12
Cancer and other malignant tumors of the skin.....	.....	.....	1	.....	.....	1
Cancer and other malignant tumors of other organs or of organs not specified.....	1	1	4	.....	1	7
Other tumors (tumors of the female genital organs excepted).....	1	.....	1	.....	.....	2
Acute articular rheumatism.....	.....	.....	1	.....	.....	1
Rheumatism, articular, subacute, and chronic.....	.....	.....	4	.....	.....	4
Anemia, chlorosis.....	1	2	2	.....	2	7
Other general diseases.....	.....	.....	.....	1	.....	1
Acute and chronic alcoholism.....	2	2	6	.....	2	12
Chronic lead poisoning.....	.....	.....	.....	1	.....	1
Surgical shock.....	.....	1	.....	.....	.....	1

CAUSES OF DEATH—Continued.

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Panama.	Colon.	Zone.	Total.
<i>II. Diseases of the nervous system and the organs of special sense.</i>						
Encephalitis.....	1					1
Simple meningitis.....	4	1	10	3		18
Epidemic cerebro-spinal meningitis.....	2	3		4		9
Pneumococcus meningitis.....	1	2				3
Other diseases of the spinal cord.....	1		2			3
Congestion and hemorrhage of the brain.....	8		9	1	8	26
Softening of the brain.....			2			2
Paralysis without specified cause.....		1	2			3
Other forms of mental alienation.....	4	1	4			9
Epilepsy.....	1		1			2
Convulsions (nonpuerperal, 5 years and over).....			2	1	4	7
Convulsions (under 5 years).....			2	4	8	14
Tetanus.....	1	2	12	1	2	18
Chorea.....			1			1
Diseases of the ear.....	1					1
<i>III. Diseases of the circulatory system.</i>						
Pericarditis.....	6	2			2	10
Pneumococcus pericarditis.....	1					1
Acute endocarditis.....			10			10
Septic endocarditis.....	1	2				3
Organic diseases of the heart.....	8	9	31	16	12	76
Angina pectoris.....					2	2
Diseases of the arteries (atheroma, aneurism, etc.).....	1	3	1	1	1	7
Embolism and thrombosis.....	2					2
Diseases of the lymphatic system (lym- phangitis, etc.).....			1			1
Hemorrhages.....	2		4	2	1	9
Other diseases of the circulatory system..	2	1		1		4
<i>IV. Diseases of the respiratory system.</i>						
Diseases of the larynx.....			1			1
Acute bronchitis.....			21	4	4	29
Chronic bronchitis.....			4	3		7
Broncho-pneumonia.....	7	3	25	11	21	67
Pneumonia.....	71	18	57	13	27	186
Pleurisy.....			3		3	6
Congestion and apoplexy of the lungs.....	3		10			13
Gangrene of the lungs.....	1					1
Asthma.....			2	1		3
Other diseases of the respiratory system (phthisis excepted).....	2	4	1	2		9
Empyema.....		1				1

CAUSES OF DEATH—Continued.

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Panama.	Colon.	Zone.	Total.
<i>V. Diseases of the digestive system.</i>						
Diseases of the mouth and its adnexa.....					1	1
Diseases of the pharynx.....			2			2
Ulcer of the stomach.....	1					1
Other diseases of the stomach (cancer ex- cepted).....			2	2	2	6
Diarrhea and enteritis (under 2 years).....	1	2	143	44	25	215
Chronic diarrhea and enteritis (under 2 years).....	1		2	5		8
Diarrhea and enteritis (2 years and over)...			19	6	5	30
Intestinal parasites.....			1		1	2
Uncinariasis.....	1			1	7	
Hernia and intestinal obstruction.....	1	2	8	1	2	1
Other diseases of the intestines.....	6		3			9
Cirrhosis of the liver.....		4	8	2		14
Other diseases of the liver.....	4		3	6		13
Abscess of the liver.....	8	3	2	1		14
Diseases of the spleen.....	1					1
Simple peritonitis.....	4	3	6	1	6	20
Other diseases of the digestive system (can- cer and tuberculosis excepted).....	1	1			2	4
Appendicitis and abscess of the iliac fossa...	2		2			4
Colic.....					1	1
<i>VI. Diseases of the genito-urinary system and its adnexa.</i>						
Acute nephritis.....	14	3	9	3	4	33
Chronic nephritis.....	51	31	50	6	9	147
Other diseases of the kidneys and their adnexa.....	2	2			1	5
Calculi of the urinary tract.....	1					1
Diseases of the bladder.....	1		1			2
Diseases of the urethra, urinary abscess, etc.			1			1
Uterine tumors (noncancerous).....			3			3
Other diseases of the uterus.....			1			1
Other diseases of the female genital organs..	2	1	1			4
Uremia.....		1				1
<i>VII. The puerperal state.</i>						
Accidents of pregnancy.....	1		2		1	4
Puerperal hemorrhage.....			1	1		2
Other accidents of labor.....					2	2
Puerperal septicemia.....	5	4	4	4	2	19
Puerperal albuminuria and convulsions.....		3	1	2	2	8
<i>VIII. Diseases of the skin and cellular tissue.</i>						
Gangrene.....			1			1
Acute abscess, phlegmon.....			1			1
Other diseases of the skin and its adnexa.....	1				1	2

CAUSES OF DEATH—Continued.

Diseases.	Ancon Hos- pital.	Colon Hos- pital.	Panama.	Colon.	Zone.	Total.
<i>IX. Diseases of the organs of locomotion.</i>						
Nontuberculous diseases of the bones.....			2			2
<i>X. Malformations.</i>						
Congenital malformations (stillbirths excepted).....			1			1
<i>XI. Early infancy.</i>						
Congenital debility, icterus, and sclerema..	3	4	20	17	56	100
Prematurity.....	3	2	11	3	17	36
Other diseases peculiar to early infancy....	1	3	2	3	14	23
Lack of care.....			3		2	5
<i>XII. Old age.</i>						
Senile debility.....		1	6		10	17
<i>XIII. External causes.</i>						
Suicide by firearms.....			2		1	3
Fractures.....	2	5	2			9
Other accidental traumatism.....	5	8	5	5	29	52
Dynamite explosion.....	3	1			9	13
Railroad accidents.....	12	15			39	66
Burns and scalds.....	5	2	3		9	19
Electric shock.....					5	5
Accidental drowning.....			2	1	38	41
Inanition (starvation).....			6			6
Absorption of deleterious gases (nonsuicidal)		1	1	2	1	5
Other acute poisoning.....					1	1
Other external violence.....	1		1		2	4
Homicide.....	2			3	8	13
Judicial execution.....					2	2
<i>XIV. Ill-defined cases.</i>						
Dropsy.....			1	5	3	9
Sudden death.....			1			1
Causes unspecified or ill-defined.....	3	2	21	3	9	38
Total.....	425	254	979	250	551	2,459
Stillbirths.....			61	55	104	220
Grand total.....	425	254	1,040	305	655	2,679

NOTE.—The deaths occurring in Ancon and Colon hospitals result from cases taken from the cities of Panama and Colon and the Canal Zone, and in the table of vital statistics are properly credited to either Panama, Colon, or the Canal Zone.

DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF
THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES.

Diseases.	Dis- charged.	Died.
<i>I. General diseases.</i>		
Typhoid fever (abdominal typhus).....	225	12
Relapsing fever.....	2	.....
Malarial fever.....	4,086	3
Estivo-autumnal malaria.....	4,287	24
Tertian malaria.....	1,570	1
Quartan malaria.....	1	.....
Mixed malaria.....	62	.....
Malarial cachexia.....	37	.....
Hemoglobinuric fever.....	86	12
Vaccinia.....	12	.....
Measles.....	39	.....
Influenza.....	237	.....
Dysentery.....	97	3
Bacillary dysentery.....	15	.....
Amebic dysentery.....	76	5
Leprosy.....	8	.....
Erysipelas.....	4	.....
Other epidemic diseases.....	28	.....
Beriberi.....	1	.....
Purulent infection and septicemia.....	7	5
Tuberculosis of the lungs.....	238	44
Tuberculosis of the meninges.....	1	2
Abdominal tuberculosis.....	2	1
Pott's disease.....	1	.....
Cold abscess and abscess by congestion.....	5	.....
White swelling.....	1	.....
Tuberculosis of other organs.....	28	2
General tuberculosis.....	.....	2
Syphilis.....	168	.....
Gonorrhea (5 years and over).....	312	.....
Cancer and other malignant tumors of the buccal cavity.....	1	.....
Cancer and other malignant tumors of stomach and liver.....	1	4
Cancer and other malignant tumors of peritoneum, intestines, and rectum.....	4	1
Cancer and other malignant tumors of the skin.....	3	.....
Cancer and other malignant tumors of other organs, or of organs not specified.....	6	3
Other tumors (tumors of the female genital organs excepted).....	9	.....
Acute articular rheumatism.....	16	.....
Rheumatism, articular, subacute, and chronic.....	61	.....
Gout.....	1	.....
Diabetes.....	1	.....
Anemia, chlorosis.....	27	.....
Other general diseases.....	57	.....
Acute and chronic alcoholism.....	76	3
Chronic lead poisoning.....	2	.....
Other chronic poisoning.....	1	.....

DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF
THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES—CON.

Diseases.	Dis- charged.	Died.
<i>II. Diseases of the nervous system and the organs of special sense.</i>		
Simple meningitis.....	1	2
Epidemic cerebro-spinal meningitis.....	.....	2
Pneumococcus meningitis.....	1	1
Progressive locomotor ataxia.....	1	1
Other diseases of the spinal cord.....	3	.....
Congestion and hemorrhage of the brain.....	6	5
Paralysis without specified cause.....	11	.....
Other forms of mental alienation.....	35	1
Epilepsy.....	13	.....
Other diseases of the nervous system.....	212	.....
Diseases of the eye and its adnexa.....	612	.....
Diseases of the ear.....	136	.....
<i>III. Diseases of the circulatory system.</i>		
Pericarditis.....	12	4
Pneumococcus pericarditis.....	.....	1
Acute endocarditis.....	4	1
Organic diseases of the heart.....	30	12
Angina pectoris.....	2	.....
Diseases of the arteries (atheroma, aneurism, etc.).....	28	2
Embolism and thrombosis.....	1	1
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	121	.....
Diseases of the lymphatic system (lymphangitis, etc.).....	242	.....
Hemorrhages.....	4	4
Other diseases of the circulatory system.....	17	2
<i>IV. Diseases of the respiratory system.</i>		
Diseases of the nasal fossæ.....	147	.....
Diseases of the larynx.....	22	1
Diseases of the thyroid body.....	1	.....
Acute bronchitis.....	287	.....
Chronic bronchitis.....	29	.....
Broncho-pneumonia.....	17	5
Pneumonia.....	142	64
Pleurisy.....	89	3
Gangrene of the lungs.....	2	1
Asthma.....	24	.....
Pulmonary emphysema.....	37	1
Other diseases of the respiratory system (phthisis excepted).....	18	2

DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF
THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES—CON.

Diseases.	Dis- charged.	Died.
<i>V. Diseases of the digestive system.</i>		
Diseases of the mouth and its adnexa.....	59	.....
Diseases of the pharynx.....	104	.....
Ulcer of the stomach.....	1	.....
Other diseases of the stomach (cancer excepted).....	62	.....
Diarrhea and enteritis (2 years and over).....	133	.....
Intestinal parasites.....	14	.....
Uncinariasis.....	35	.....
Hernia and intestinal obstruction.....	218	1
Other diseases of the intestines.....	116	2
Cirrhosis of the liver.....	38	1
Biliary calculi.....	2	.....
Other diseases of the liver.....	55	6
Abscess of liver.....	11	4
Diseases of the spleen.....	3	1
Simple peritonitis.....	2	5
Other diseases of the digestive system (cancer and tuberculosis excepted).....	10	.....
Appendicitis and abscess of the iliac fossa.....	92	1
<i>VI. Diseases of the genito-urinary system and its adnexa.</i>		
Acute nephritis.....	50	9
Chronic nephritis.....	157	42
Other diseases of the kidneys and their adnexa.....	10	2
Calculi of the urinary tract.....	4	.....
Diseases of the bladder.....	44	.....
Diseases of the urethra, urinary abscess, etc.....	65	.....
Chancroids.....	308	.....
Chancroidal buboe.....	25	.....
Nonvenereal diseases of the male genital organs.....	279	.....
Uterine tumors (noncancerous).....	1	.....
Other diseases of the uterus.....	1	.....
Other diseases of the female genital organs.....	6	.....
Nonpuerperal diseases of the breast (cancer excepted).....	1	.....
<i>VII. The puerperal state.</i>		
Accidents of pregnancy.....	1	.....
Puerperal septicemia.....	1	1
Childbirth.....	1	.....
<i>VIII. Diseases of the skin and cellular tissue.</i>		
Gangrene.....	9	.....
Furuncle.....	116	.....
Acute abscess, plegmon.....	192	1
Other diseases of the skin and its adnexa.....	296	.....

DISCHARGES AND DEATHS OF EMPLOYEES IN THE HOSPITALS OF
THE ISTHMIAN CANAL COMMISSION, FROM ALL CAUSES—Con.

Diseases.	Dis- charged.	Died.
<i>IX. Diseases of the organs of locomotion.</i>		
Nontuberculous diseases of the bones.....	30	.....
Arthritis and other diseases of the joints (tuberculosis and rheu- matism excepted).....	98	.....
Amputation.....	115	3
Other diseases of the organs of locomotion.....	344	.....
<i>XII. Old age.</i>		
Senile debility.....	.....	1
<i>XIII. External causes.</i>		
Fractures.....	355	9
Dislocations.....	35	.....
Other accidental traumatisms.....	674	13
Dynamite explosions.....	15	2
Railroad accidents.....	1	13
Burns and scalds.....	70	2
Burns by corrosive substances.....	1	.....
Sunstroke.....	1	.....
Electric shock.....	4	.....
Inanition (starvation).....	8	.....
Absorption of deleterious gases (nonsuicidal).....	.....	1
Other acute poisoning.....	8	.....
Other external violence.....	569	2
<i>XIV. Ill-defined causes.</i>		
Sudden death.....	.....	1
Causes unspecified or ill defined.....	111	6
Not sick.....	30	.....
Total.....	19,200	372

CONSOLIDATED HOSPITAL REPORT.

Hospitals.	Re- main- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Re- main- ing Dec. 31.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
<i>Ancon Hospital.</i>												
Employees.....	299	339	7,096	9,008	61	185	5,074	8,886	2,016	8	244	268
Nonemployees.....	50	45	1,604	839	31	123	1,503	699	66	8	54	54
Insane.....	20	198	41	172	2	23	29	120	2	9	28	218
Total.....	369	582	8,741	10,019	94	331	6,606	9,705	2,084	25	326	540
<i>Colon Hospital.</i>												
Employees.....	69	79	1,768	1,723	20	99	1,477	1,508	237	12	103	183
Nonemployees.....	27	35	596	673	24	111	551	524	9	23	39	50
Total.....	96	114	2,364	2,396	44	210	2,028	2,032	246	35	142	233
<i>Culebra Hospital.</i>												
Employees.....	1	.....	4	11	.....	3	3	4	1	3	1	1
Nonemployees.....	1	4	70	192	.....	2	64	173	3	14	4	7
Total.....	2	4	74	203	.....	5	67	177	4	17	5	8
<i>Palo Seco Leper Asylum.</i>												
Employees.....	.....	.....	.....	7	.....	.....	.....	4	.....	2	.....	1
Nonemployees.....	.....	22	1	16	.....	1	.....	.....	.....	5	1	32
Total.....	.....	22	1	23	.....	1	.....	4	.....	7	1	33
<i>Taboga Sanitarium.</i>												
Employees.....	70	.....	2,706	.....	.....	.....	2,703	.....	16	.....	57	.....
Nonemployees.....	9	.....	657	.....	.....	.....	661	.....	.....	.....	5	.....
Total.....	79	.....	3,363	.....	.....	.....	3,364	.....	16	.....	62	.....
Grand total:												
Employees.....	439	418	11,574	10,749	81	287	9,257	10,402	2,270	25	405	453
Nonemployees..	87	106	2,928	1,720	55	237	2,779	1,396	78	50	103	143
Insane.....	20	198	41	172	2	23	29	120	2	9	28	218
Total.....	546	722	14,543	12,641	138	547	12,065	11,918	2,350	84	536	814

CONSOLIDATED DISPENSARY REPORT.

Class.	White.	Black.	Total.
Employees.....	220, 320	213, 947	434, 267
Nonemployees.....	49, 486	30, 016	79, 502
Total.....	269, 806	243, 963	513, 769

CONSOLIDATED SICK CAMP REPORT.

Station.	Re main- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Re- main- ing Dec. 31.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Ancon.....	7	...	1,299	459	.....	.....	1,237	449	61	7	8	3
Corozal.....	.....	.....	116	125	.....	.....	85	98	30	27	1	...
Miraflores.....	4	...	563	487	.....	.....	464	407	101	77	2	3
Pedro Miguel.....	1	3	383	468	.....	.....	316	391	65	73	3	7
Paraiso.....	2	4	293	370	1	3	240	306	54	63	.....	2
Culebra.....	6	10	493	729	.....	2	312	381	186	353	1	3
Empire.....	.....	2	218	589	.....	.....	171	399	47	184	.....	8
Las Cascadas.....	6	3	519	521	1	2	367	379	134	139	3	4
Bas Obispo.....	17	6	891	635	1	1	702	544	203	91	2	5
Gorgona.....	1	7	213	461	.....	.....	148	339	66	129	.....	...
San Pablo.....	3	8	442	585	.....	.....	326	423	118	158	1	12
Tabernilla.....	.....	3	303	797	.....	.....	234	636	64	160	5	4
Frijoles.....	.....	.....	.....	26	.....	.....	.....	12	.....	10	.....	4
Bohio.....	.....	.....	12	90	.....	.....	4	43	8	45	.....	2
Gatun.....	14	.....	517	3,205	.....	1	262	1,341	251	1,858	4	19
Gatun Spillway.....	.....	.....	380	295	.....	.....	245	198	135	97	.....	...
Cristobal.....	.....	6	60	769	.....	.....	53	537	7	228	.....	10
Porto Bello.....	4	2	341	442	1	1	274	343	62	96	8	4
Nombre de Dios.....	.....	.....	1	5	.....	.....	1	4	.....	.....	.....	1
Total.....	51	68	7,044	11,058	4	10	5,441	7,230	1,612	3,795	38	91

CONSOLIDATED HOSPITAL, SICK CAMP, AND SICK IN QUARTERS REPORT.

	Re- main- ing Jan. 1.		Admitted.		Died.		Discharged.		Trans- ferred.		Re- main- ing Dec. 31.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Hospitals.....	546	722	14,543	12,641	138	547	12,065	11,918	2,350	84	536	814
Sick camps.....	51	68	7,044	11,058	4	10	5,441	7,230	1,612	3,795	38	91
Total.....	597	790	21,587	23,699	142	557	17,506	19,148	3,962	3,879	574	905

TOTAL ADMISSIONS TO HOSPITALS AND SICK CAMPS FOR THE YEAR.

	White.	Black.	Total.
Total admissions to hospitals and sick camps.....	21,587	23,699	45,286
Less number of patients transferred from hospitals to sanitarium and from sick camps to hospitals whose admissions are duplicated in above figures.....	3,962	3,879	7,841
Number of employees sick in quarters.....	17,625 7,841	19,820 1,307	37,445 9,148
Net admissions to hospitals and sick camps, including employees sick in quarters.....	25,466	21,127	46,593

SUBSISTENCE AND OPERATING EXPENSES.

	Hospitals.	Sick camps.	Total.
SUBSISTENCE EXPENSES.			
Number of days' rations issued to patients.....	479,682	44,104	523,786
Total cost of rations issued to patients...	\$131,985.68	\$11,810.26	\$143,795.94
Cost of subsistence per patient per day..	\$0.275	\$0.268	\$0.274
OPERATING EXPENSES.			
Number of days' relief furnished patients.....	479,682	44,104	523,786
Total cost of operation.....	\$625,401.40	\$22,269.38	\$647,670.78
Cost per capita per day.....	\$1.30	\$0.50	\$1.24
Total cost of operation, with amounts received from outside patients deducted.....	\$527,319.68	\$22,269.38	\$549,589.06
Cost per capita per day with above deduction.....	\$1.10	\$0.50	\$1.05
Total cost of dispensaries.....	\$170,040.01		

NOTE.—This per capita cost includes all expenses of the hospitals except original construction and extensive repairs.

AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK DURING THE YEAR IN HOSPITALS, SICK CAMPS, AND QUARTERS.

	Hospitals.		
	White.	Black.	Total.
Ancon hospital	265.29	341.09	606.38
Colon hospital	69.51	115.86	185.37
Culebra hospital.....	.14	.28	.42
Palo Seco leper asylum.....		1.04	1.04
Taboga sanitarium.....	59.78		59.78
Total.....	394.72	458.27	852.99

AVERAGE NUMBER OF EMPLOYEES CONSTANTLY SICK DURING
THE YEAR IN HOSPITALS, SICK CAMPS, AND QUARTERS—Con.

	Sick camps.			Sick in quarters.		
	White.	Black.	Total.	White.	Black.	Total.
Ancon.....	8.23	1.94	10.17	2.35	0.01	2.36
Balboa.....				1.82	.20	2.02
Corozal.....	.58	.87	1.45	1.42	.03	1.45
Miraflores.....	3.26	2.77	6.03	.16	.02	.18
Pedro Miguel.....	3.35	3.77	7.12	2.49	.03	2.52
Paraíso.....	2.30	2.77	5.07	1.62	.22	1.84
Culebra.....	3.41	4.00	7.41	3.65	1.32	4.97
Empire.....	2.07	4.61	6.68	5.98	.24	6.22
Las Cascadas.....	3.90	4.22	8.12	2.28	.16	2.44
Bas Obispo.....	5.74	4.73	10.47	2.01		2.01
Gorgona.....	1.47	3.77	5.24	6.48	.79	7.27
San Pablo.....	2.95	4.56	7.51	.28	.03	.31
Tabernilla.....	2.20	7.18	9.38	1.14	.01	1.15
Frijoles.....		.11	.11	.08	.20	.28
Bohío.....	.05	.26	.31	.12	.14	.26
Gatun.....	2.82	13.76	16.58	3.40	.04	3.44
Gatun Spillway.....	2.16	1.75	3.91			
Cristobal.....	.41	6.62	7.03	13.06	6.35	19.41
Porto Bello.....	3.99	4.19	8.18	1.63	.01	1.64
Nombre de Dios.....	.13	.20	.33	.19	.58	.77
Total.....	49.02	72.08	121.10	50.16	10.38	60.54

SUMMARY.

	Hospitals.	Sick camps.	Quarters.	Total.
Average number of employees sick daily:				
White.....	394.72	49.02	50.16	493.90
Black.....	458.27	72.08	10.38	540.73
Total.....	852.99	121.10	60.54	1,034.63
Average number of employees sick daily, per thousand:				
White.....	33.85	4.20	4.30	42.35
Black.....	12.91	2.03	.29	15.23
Total.....	18.08	2.57	1.28	21.93

OUTSIDE PATIENTS TREATED IN HOSPITALS AND AMOUNTS COLLECTED FOR THEIR TREATMENT.

	Number cases treated.	Number days' relief.	Amount.
Patients for whom the Republic of Panama pays 75 cents per day.....	2, 107	59, 349	\$44, 511. 75
Patients for whom the Canal Zone government pays 30 cents per day.....	408	9, 575	2, 872. 50
Patients paying 30 cents per day for themselves....	1, 170	13, 470	4, 041. 00
Patients from the Republic of Panama paying other prices.....	917	8, 591	19, 485. 70
Patients from the Canal Zone paying other prices....	2, 356	18, 016	27, 170. 77
Patients from the Republic of Panama not paying.....	483	7, 423	.....
Patients from the Canal Zone not paying.....	2, 107	42, 607	.....
Total.....	9, 548	159, 031	98, 081. 72

NOTE.—Patients carried from one month to another are considered as separate cases in above table.

SURGICAL OPERATIONS PERFORMED IN HOSPITALS.

	Number.	Died.
Abcess of lung.....	2	.....
Accouchement force.....	2	.....
Adenectomy:		
Axillary.....	8	.....
Inguinal, single.....	368	.....
Inguinal, double.....	31	.....
Cervical.....	25	.....
Femoral.....	19	.....
Inguinal and femoral.....	3	.....
Amputation:		
Arm.....	12	1
Arm and leg.....	2	2
Arm and both legs.....	1	.....
Breast.....	10	.....
Cervix.....	1	.....
Digits.....	60	.....
Foot.....	3	.....
Hip.....	4	.....
Leg.....	19	2
Legs, both, and thigh.....	2	1
Legs, both.....	2	1
Leg and trephine.....	1	.....
Metacarpus.....	1	.....
Metacarpus and metatarsus.....	2	.....
Thigh.....	16	3
Thigh, double.....	3	2

SURGICAL OPERATIONS PERFORMED IN HOSPITALS—Continued.

	Number.	Died.
Arthrectomy, knee.....	1	1
Arthrotomy, knee.....	1	.....
Cholecystotomy.....	1	.....
Cancer of breast (Halstead's).....	1	.....
Craniotomy.....	10	5
Castration.....	8	.....
Curettage, uteri.....	100	.....
Curettage and trachelorrhaphy.....	2	.....
Cystotomy, suprapubic.....	1	.....
Endometrectomy.....	1	1
Excision:		
Adenoma of breast.....	2	.....
Breast.....	1	.....
Bunion (Mayo's operation).....	6	.....
Epithelioma of face.....	3	.....
Varicose veins.....	9	.....
Fistula in ano.....	4	.....
Fracture:		
Patella, repaired.....	2	.....
Skull.....	4	1
Skull, trephine.....	9	3
Various, wired.....	28	.....
Various, compound, wired.....	15	.....
Hemorrhoids:		
Clamp and ligature.....	82	1
Whitehead's operation.....	33	.....
Herniotomy, inguinal:		
Single.....	127	1
Double.....	108	.....
Strangulated.....	19	1
And umbilical.....	1	.....
And femoral, double.....	2	.....
Single, and varicocele.....	3	.....
Single, and appendectomy.....	2	.....
Double, and appendectomy.....	1	.....
Double, and ventral.....	1	.....
Single, and ventral.....	1	.....
Herniotomy:		
Femoral.....	3	.....
Ventral.....	7	.....
Hydrocele.....	54	.....
Hydrocele:		
Single.....	17	.....
Double.....	9	.....
Radical.....	14	.....
Incision of abscess (septic pneumonia).....	1	1
Laminectomy.....	7	3
Laminectomy, cervical.....	1	1
Laparotomies:		
Abscess of liver.....	36	8
Abscess of liver, multiple, with peritonitis.....	1	1
Abscess, paranephritic.....	1	.....
Abscess, pelvic.....	12	1
Abscess, subphrenic, with general peritonitis.....	1	.....
Appendectomy.....	115	.....

SURGICAL OPERATIONS PERFORMED IN HOSPITALS—Continued.

	Number.	Died.
Laparotomies—Continued.		
Appendectomy—		
Acute gangrenous.....	3	.....
And round ligament suspension of uterus.....	23	.....
And salpingectomy.....	4	.....
With pelvic peritonitis.....	7	.....
And ovarian cystectomy.....	2	.....
And localized peritonitis.....	4	.....
And nephropexy.....	1	.....
And general peritonitis.....	4	2
Appendectomy.....	4	2
Carcinoma of colon.....	2	.....
Carcinoma of ovaries, peritoneum.....	1	.....
Cecostomy.....	3	3
Cecostomy and ventral herniotomy.....	2	.....
Cholelithiasis.....	1	.....
Cholecystectomy.....	3	.....
Do.....	2	1
Cholecystostomy, cholelithiasis, and cholecystitis.....	2	.....
Cholecystitis, gangrenous.....	1	1
Cyst of liver, echinococcus.....	1	1
Ectopic gestation.....	1	.....
Enterorrhaphy.....	1	.....
Exploratory.....	8	1
Exploratory—		
Abscess of liver.....	1	1
Carcinoma.....	2	1
Hemorrhage.....	1	.....
Hepatic neoplasm.....	1	.....
Sarcoma.....	2	.....
Stab wound.....	1	.....
Gastro-enterostomy.....	2	1
Hematoperitoneum.....	1	.....
Hysterectomy.....	14	1
Hysterectomy—		
Supravaginal.....	2	.....
With appendectomy.....	4	.....
Hysteromyomectomy.....	1	.....
Hysteromyomectomy, with appendectomy.....	3	.....
Hypernephroma.....	1	1
Intestinal obstruction.....	1	.....
Myomectomy.....	1	.....
Nephrotomy.....	3	1
Oophorecystectomy, amputation of cervix, perineorrhaphy.....	1	.....
Ovariectomy.....	5	.....
Ovariectomy and appendectomy.....	1	.....
Perihepatitis, chronic.....	2	.....
Peritonitis—		
General appendix.....	4	2
Diverticulitis.....	1	.....
Rupture of intestine.....	2	2
Tuberculous.....	3	1
General.....	3	1
General, stab wounds.....	1	.....
Appendectomy and ventral herniotomy.....	1	.....
Chronic hemorrhagic.....	1	.....
Chronic.....	1	.....
Origin unknown.....	1	.....

SURGICAL OPERATIONS PERFORMED IN HOSPITALS—Continued.

	Number.	Died.
Laparotomies—Continued.		
Resection, intestinal, for intussusception.....	1	1
Round ligament suspension of uterus.....	7	
Round ligament suspension of uterus, appendectomy and myomectomy.....	1	
Round ligament suspension of uterus, and salpingectomy..	3	
Rupture of liver, traumatic.....	1	1
Salpingectomy.....	9	
Salpingectomy, double.....	1	
Salpingo-oophorectomy and appendectomy.....	9	
Salpingo-ooporectomy, appendectomy, trachelorrhaphy, and perineorrhaphy.....	2	
Salpingo-oophorectomy.....	1	
Sigmoidopexy.....	2	
Stab wound.....	2	
Perineorrhaphy.....	72	1
Perineorrhaphy and trachelorrhaphy.....	11	
Perineoplasty (Holden's operation).....	6	
Plastic for severe injuries.....	3	
Prolapsus rectum.....	2	
Removal of fragment of bone from fractured femur.....	1	
Resection of knee, tubercular.....	4	
Resection of humerus.....	1	
Resection of metatarsals.....	2	
Retroflexion of uterus.....	1	
Sarcoma of elbow.....	1	
Shortening round ligaments.....	1	
Skin graft.....	39	
Spina-bifidia, meningocele.....	1	
Stricture of urethra.....	25	
Stricture of urethra and external urethrotomy.....	1	
Tenorrhaphy.....	1	
Thoracotomy, exploratory.....	1	1
Trachelorrhaphy.....	5	
Trephine, cerebellar tumor.....	1	
Tuberculosis, cervical spine.....	1	1
Urethrotomy:		
Internal.....	15	
Perineal.....	32	1
Vaginal sections.....	7	
Varicocele.....	38	
Various other major operations.....	160	
Various other minor operations.....	3,583	3
Total.....	5,667	73

OPERATIONS AND WORK PERFORMED IN EYE, EAR, NOSE, AND THROAT CLINICS.

Operations.	Number.	Died.
Adenectomy.....	45	.....
Adenectomy and tonsillectomy.....	9	.....
Adenectomy and tonsillotomy.....	176	.....
Advancement of internal rectus.....	1	.....
Abscess of nasal septum.....	2	.....
Amputation of uvula.....	1	.....
Curetage of ear.....	1	.....
Cut throat treated.....	1	.....
Dilation of lachrymal stricture.....	1	.....
Drainage of:		
Antrum.....	5	.....
Frontal sinus.....	5	.....
Maxillary sinus.....	3	.....
Sphenoid sinus.....	1	.....
Enucleation.....	4	.....
Evisceration.....	19	.....
Excision of alveolar process.....	1	.....
Excision of growth under tongue.....	1	.....
Excision of lymphoid angioma.....	1	.....
Exploratory, mastoid.....	1	.....
Expression for follicular conjunctivitis.....	70	.....
Expression for trachoma.....	2	.....
Extraction of cataract.....	10	.....
Grattage.....	1	.....
Incision of:		
Abscess back of ear.....	1	.....
Abscess of nasal septum.....	1	.....
Alveolar abscess.....	3	.....
Peritonsillar abscess.....	12	.....
Nasal sinusitis.....	1	.....
Dacryocystitis.....	3	.....
Furuncle, auditory meatus.....	2	.....
Iridectomy.....	22	.....
Killian's operation—frontal sinus.....	1	.....
Mastoid:		
Radical, and ligation of jugular vein.....	1	1
Simple.....	6	.....
Radical.....	6	.....
Needling cataract.....	8	.....
Snaring nasal polypoid tumor.....	2	.....
Snaring tonsillar polypoid tumor.....	1	.....
Opening lachrymal tube.....	1	.....
Pterygium.....	63	.....
Pterygium, double.....	1	.....
Paracentesis.....	8	.....
Paracentesis of cornea.....	9	.....
Paracentesis of membrana tympani.....	18	.....
Plastic on:		
Ear.....	3	.....
Eyelid.....	8	.....
Face.....	1	.....
Lip.....	1	.....
Nose.....	5	.....
Plastic and skin graft.....	1	.....
Ptosis, operation for.....	2	.....

OPERATIONS AND WORK PERFORMED IN EYE, EAR, NOSE, AND THROAT CLINICS—Continued.

Operations.	Number.	Died.
Removal of:		
Bullet from jaw.....	1	
Nasal spur.....	1	
Nasal rhinolith.....	1	
Necrossed turbinal.....	1	
Necrossed vomer.....	1	
Polyp.....	7	
Retropharyngeal abscess.....	1	
Rolling operation for follicular conjunctivitis.....	5	
Submucous resection of nasal septum.....	65	
Submucous resection of spur of nose.....	6	
Straightening of nose.....	1	
Tenotomy.....	4	
Tonsillotomy.....	34	
Tonsillectomy.....	4	
Tonsillotomy and tonsillectomy.....	4	
Trichiasis, double.....	1	
Turbinectomy.....	4	
Various other minor operations.....	456	
Total.....	1,149	1
Examination of school children.....	509	
Examination of employees for vision and hearing.....	219	
Refractions.....	1,902	
Outside cases treated.....	10,839	

*CONSOLIDATED WARD LABORATORY REPORT OF ALL HOSPITALS.

Blood examinations.....	20,272
Estivo-autumnal.....	5,395
Tertian—	
Single.....	2,184
Double.....	61
Mixed tertian and estivo-autumnal.....	126
Quartan.....	1
Leptra bacilli.....	1
Differential blood counts.....	1,192
Leucocyte counts.....	1,862
Red blood counts.....	77
Red and white blood counts.....	50
Hemoglobin estimations.....	1,130
Filaria.....	9
Spirilla obermeierii.....	2
Spirochaete of relapsing fever.....	1
Blood cultures.....	45
Widals.....	33
Guaiac and turpentine tests for invisible blood.....	55

Stool examinations.....	7, 667
<i>Ascaris lumbricoides</i>	370
<i>Uncinaria ova</i>	1, 319
<i>Uncinaria</i> worms.....	39
<i>Trichocephalus dispar</i>	999
<i>Strongyloides intestinalis</i>	229
<i>Tenia</i>	9
<i>Tenia saginata</i>	2
<i>Ameba</i>	227
<i>Ameba coli</i>	13
<i>Ameba dysenteria</i>	15
Ciliated monads.....	271
Flagellated monads.....	10
<i>Bilharzia</i>	12
Pus and blood.....	764
Pus and epithelial cells.....	59
<i>Balantidium coli</i>	3
Tubercular bacilli.....	5
<i>Lepra</i> bacilli.....	1
Urine examinations.....	26, 366
Albumen.....	9, 251
Albumen and casts.....	4, 952
Sugar.....	38
Pus and blood.....	581
Gonococci.....	5
Indican.....	4
Epithelium.....	148
Hemoglobin.....	10
Bile.....	2
Hyaline and granular.....	1
Cylindroids.....	1
Diazo reactions.....	9
Microscopical examinations.....	412
Specific gravity estimations.....	311
Urea estimations.....	20
Sputum examinations.....	1, 896
Tubercular bacilli.....	220
Pneumococci.....	8
Miscellaneous:	
Examinations of—	
Pleural effusions.....	9
Spinal fluid.....	14
Vaginal and urethral discharges.....	156
Chancre scrapings.....	1
Pus, blood, and tissue.....	259
Various smears and discharges.....	107

ANCON HOSPITAL.

Class.	Re- main- ing Jan. 1.		Admitted.		Died.		Dis- charged.		Trans- ferred.		Re- main- ing Dec. 31.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Isthmian Canal Commission em- ployees.....	291	292	6,855	6,981	57	152	4,990	6,916	1,945	8	244	197
Panama Railroad employees.....	8	47	241	2,027	4	33	174	1,970	71	.....	71	.....
Pay patients.....	41	18	1,360	468	23	42	1,266	408	63	2	49	34
Charity patients....	9	27	244	371	8	81	237	291	3	6	5	20
Insane patients.....	20	198	41	172	2	23	20	120	2	9	28	218
Total.....	369	582	8,741	10,019	94	331	6,606	9,705	2,084	25	326	540

Average number of days' treatment per employee for the year:

White.....	13. 54
Black.....	13. 71

Total..... 13. 64

Average number of employees constantly sick during the year:

White.....	265. 29
Black.....	341. 09

Total..... 606. 38

Number of days' relief furnished patients..... 346, 260

Cost of subsistence per patient per day..... \$0. 248

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Black.	White.	Black.
Isthmian Canal Commission employees.....	14,419	2,888	17	4,258	7,256
Panama Railroad employees.....	2,323	165	2	84	2,072
Pay patients.....	1,887	954	2	447	484
Charity patients.....	651	146	1	107	397
Insane patients.....	431	12	.....	49	370
Total.....	19,711	4,165	22	4,945	10,579

OPERATIONS.

(See report of all surgical operations.)

LABORATORY REPORT.

(See consolidated ward laboratory report.)

COLON HOSPITAL.

Class.	Re-main-ing Jan. 1.		Admitted.		Died.		Dis-charged.		Trans-ferred.		Re-main-ing Dec.31.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Isthmian Canal Com-mission employees..	61	51	1,402	1,021	16	58	1,181	884	177	9	89	121
Panama Railroad em- ployees.....	8	28	366	702	4	41	296	624	60	3	14	62
Pay, private.....	15	7	456	311	12	41	427	266	7	1	25	10
Pay, municipal.....	5	17	8	53	.....	14	12	46	1	3	.....	7
Zone, charity.....	7	11	132	309	12	56	112	212	1	19	14	33
Total.....	96	114	2,364	2,396	44	216	2,028	2,032	246	35	142	233

Average number of days' treatment per employee for the year:

White.....	14. 63
Black.....	26. 12

Total.....	20. 18
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Average number of employees constantly sick during the year:

White.....	69. 51
Black.....	115. 86

Total.....	185. 37
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Number of days' relief furnished all patients.....	95, 456
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Cost of subsistence per patient per day.....	\$0. 263
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NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Black.	White.	Black.
Isthmian Canal Commission employees.....	2, 535	774	8	689	1, 064
Panama Railroad employees.....	1, 104	274	1	100	729
Pay, private.....	789	257	.....	214	318
Pay, municipal.....	83	1	.....	12	70
Zone, charity.....	459	49	1	90	319
Total.....	4, 970	1, 355	10	1, 105	2, 500

OPERATIONS.

(See report of all surgical operations.)

LABORATORY REPORT.

(See consolidated ward laboratory report.)

CULEBRA HOSPITAL.

Class.	Re- maining Jan. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- maining Dec. 31.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Employees.....	1	...	4	11	...	3	3	4	1	3	1	1
Nonemployees.....	1	4	70	192	...	2	64	173	3	14	4	7
Total.....	2	4	74	203	...	5	67	177	4	17	5	8

Average number of days' treatment per employee for the year:

White.....	13. 25
Black.....	10. 20
Total.....	11. 07

Average number of employees constantly sick during the year:

White.....	0. 14
Black.....	0. 28
Total.....	0. 42

Number of days' relief furnished all patients..... 2, 997

Cost of subsistence per patient per day..... \$0. 247

NATIONALITY.

Class.	Num- ber treated.	Americans.		Other nations.	
		White.	Black.	White.	Black.
Employees.....	16			5	11
Nonemployees.....	267	19	3	52	193
Total.....	283	19	3	57	204

OPERATIONS.

(See report of all surgical operations.)

LABORATORY REPORT.

(See consolidated ward laboratory report.)

PALO SECO LEPER ASYLUM.

Class.	Re- maining Jan. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- maining Dec. 31.	
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.
Employees.....				7				4		2		1
Pay cases.....		18	1	7		1				3	1	21
Charity cases.....		4		9						2		11
Total.....		22	1	23		1		4		7	1	33

Average number of days' treatment per employee for the year, black.....	63. 17
Average number of employees constantly sick during the year, black.....	1. 04
Number of days' relief furnished all patients.....	9, 883
Cost of subsistence per patient per day.....	\$0. 287

NATIONALITY.

Class.	Number treated.	Other nations.	
		White.	Black.
Employees.....	7		7
Pay patients.....	26	1	25
Charity patients.....	13		13
Total.....	46	1	45

TABOGA SANITARIUM.

Class.	Remain- ing Jan. 1.	Admit- ted.	Dis- charged.	Trans- ferred.	Remain- ing Dec. 31.
Employees.....	70	2,706	2,703	16	57
Families of employees.....	9	657	661	.....	5
Total.....	79	3,363	3,364	16	62

Average number of days' treatment per employee for the year.....	8.02
Average number of employees constantly sick during the year.....	59.78
Number of days' relief furnished all patients.....	25,086
Cost of subsistence per patient per day.....	\$0.713

NATIONALITY.

Class.	Number treated.	Americans.	Other nations.
Employees.....	2,776	1,855	921
Families of employees.....	666	628	38
Total.....	3,442	2,483	959

NOTE.—No colored patients treated at Taboga Sanitarium.

SANTO TOMAS HOSPITAL.

Class.	Remain- ing Jan. 1.	Admit- ted.	Died.	Dis- charged.	Remain- ing Dec. 31.
Pay patients.....	26	1,231	13	1,230	14
Charity patients.....	208	4,109	273	3,824	220
Total.....	234	5,340	286	5,054	234

Average number of days' treatment per patient.....	15.18
Average number of patients constantly sick.....	222.02
Number of days' relief furnished patients.....	81,038
Cost of subsistence per patient per day.....	\$0.36

SANTO TOMAS HOSPITAL—Continued.

NATIONALITY.

Class.	Number treated.	Other nations.	
		White.	Black.
Pay patients.....	1,257	239	1,018
Charity patients.....	4,317	900	3,417
Total.....	5,574	1,139	4,435

OPERATIONS.

	Number.	Died.
Major.....	636	18
Minor.....	1,174	.....
Total.....	1,810	18

DISPENSARY.

Class.	White.	Black.	Total.
Natives.....	220	813	1,033
Foreigners.....	161	93	254
Total.....	381	906	1,287

ANCON DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	11, 670	10, 181	21, 851
Nonemployees.....	1, 769	1, 243	3, 012
Total.....	13, 439	11, 424	24, 863

SICK CAMP.

Remaining January 1.....	7	.....	7
Admitted.....	1, 299	459	1, 758
Discharged.....	1, 237	449	1, 686
Transferred.....	61	7	68
Remaining December 31.....	8	3	11
Average number constantly sick.....	8. 23	1. 94	10. 17
Average number of days' treatment per patient.....	2. 32	1. 56	2. 12
Number of days' relief.....	3, 005	710	3, 715

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	860	3	863
New patients excused for quarters.....	359	1	360
Average number constantly sick.....	2. 35	0. 01	2. 36
Average number of days' treatment per patient.....	2. 39	3. 00	2. 40

BALBOA DISPENSARY, AND EMPLOYEES SICK IN
QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	12, 650	15, 183	27, 833
Nonemployees.....	1, 265	734	1, 999
Total.....	13, 915	15, 917	29, 832

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	663	71	734
New patients excused for quarters.....	431	41	472
Average number constantly sick.....	1. 82	0. 20	2. 02
Average number of days' treatment per patient.....	1. 54	1. 73	1. 56

COROZAL DISPENSARY, SICK CAMP, AND EMPLOYEES
SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	7, 921	5, 356	13, 277
Nonemployees.....	2, 108	595	2, 703
Total.....	10, 029	5, 951	15, 980

SICK CAMP.

Admitted.....	116	125	241
Discharged.....	85	98	183
Transferred.....	30	27	57
Remaining December 31.....	1	.....	1
Average number constantly sick.....	0. 58	0. 87	1. 45
Average number of days' treatment per patient.....	1. 85	2. 54	2. 21
Number of days' relief furnished.....	213	317	530

COROZAL DISPENSARY, SICK CAMP, AND EMPLOYEES
SICK IN QUARTERS—Continued.

EMPLOYEES SICK IN QUARTERS.

Class.	White.	Black.	Total.
Days excused for quarters.....	518	13	531
New patients excused for quarters.....	256	7	263
Average number constantly sick.....	1. 42	0. 03	1. 45
Average number of days' treatment per patient.....	2. 02	1. 86	2. 02

MIRAFLORES DISPENSARY, SICK CAMP, AND EM-
PLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	7, 956	6, 527	14, 483
Nonemployees.....	232	308	540
Total.....	8, 188	6, 835	15, 023

SICK CAMP.

Remaining January 1.....	4	.....	4
Admitted.....	563	487	1, 050
Discharged.....	464	407	871
Transferred.....	101	77	178
Remaining December 31.....	2	3	5
Average number constantly sick.....	3. 26	2. 77	6. 03
Average number of days' treatment per patient.....	2. 11	2. 09	2. 10
Number of days' relief furnished.....	1, 191	1, 010	2, 201

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	58	6	64
New patients excused for quarters.....	44	6	50
Average number constantly sick.....	0. 16	0. 02	0. 18
Average number of days' treatment per patient.....	1. 32	1. 00	1. 28

PEDRO MIGUEL DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	9, 205	7, 767	16, 972
Nonemployees.....	1, 478	802	2, 280
Total.....	10, 683	8, 569	19, 252

SICK CAMP.

Remaining January 1.....	1	3	4
Admitted.....	383	468	851
Discharged.....	316	391	707
Transferred.....	65	73	138
Remaining December 31.....	3	7	10
Average number constantly sick.....	3. 35	3. 77	7. 12
Average number of days' treatment per patient.....	3. 21	2. 98	3. 08
Number of days' relief furnished.....	1, 223	1, 385	2, 608

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	910	13	923
New patients excused for quarters.....	392	4	396
Average number constantly sick.....	2. 49	. 03	2. 52
Average number of days' treatment per patient.....	2. 32	3. 25	2. 33

PARAISO DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	5,834	4,898	10,732
Nonemployees.....	2,037	1,403	3,440
Total.....	7,871	6,301	14,172

SICK CAMP.

Remaining January 1.....	2	4	6
Admitted.....	293	370	663
Died.....	1	3	4
Discharged.....	240	306	546
Transferred.....	54	63	117
Remaining December 31.....	-----	2	2
Average number constantly sick.....	2.30	2.77	5.07
Average number of days' treatment per patient.....	2.85	2.72	2.77
Number of days' relief furnished.....	839	1,011	1,850

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	592	82	674
New patients excused for quarters.....	243	45	288
Average number constantly sick.....	1.62	.22	1.84
Average number of days' treatment per patient.....	2.44	1.82	2.34

CULEBRA DISPENSARY, SICK CAMP, AND EMPLOYEES
SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	28,451	27,088	55,539
Nonemployees.....	9,451	6,323	15,774
Total.....	37,902	33,411	71,313

SICK CAMP.

Remaining January 1.....	6	10	16
Admitted.....	493	729	1,222
Died.....		2	2
Discharged.....	312	381	693
Transferred.....	186	353	539
Remaining December 31.....	1	3	4
Average number constantly sick.....	3.41	4.00	7.41
Average number of days' treatment per patient.....	2.50	1.98	2.19
Number of days' relief furnished.....	1,244	1,458	2,702

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	1,333	482	1,815
New patients excused for quarters.....	571	169	740
Average number constantly sick.....	3.65	1.32	4.97
Average number of days' treatment per patient.....	2.33	2.85	2.45

EMPIRE DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	20, 141	17, 500	37, 641
Nonemployees.....	6, 578	3, 858	10, 436
Total.....	26, 719	21, 358	48, 077

SICK CAMP.

Remaining January 1.....	.....	2	2
Admitted.....	218	589	807
Discharged.....	171	399	570
Transferred.....	47	184	231
Remaining December 31.....	.....	8	8
Average number constantly sick.....	2. 07	4. 61	6. 68
Average number of days' treatment per patient.....	3. 47	2. 88	3. 04
Number of days' relief furnished.....	756	1, 683	2, 439

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	2, 184	89	2, 273
New patients excused for quarters.....	1, 096	58	1, 154
Average number constantly sick.....	5. 98	. 24	6. 22
Average number of days' treatment per patient.....	1. 99	1. 53	1. 97

LAS CASCADAS DISPENSARY, SICK CAMP, AND
EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	12, 555	8, 850	21, 405
Nonemployees.....	5, 103	3, 528	8, 631
Total.....	17, 658	12, 378	30, 036

SICK CAMP.

Remaining January 1.....	6	3	9
Admitted.....	519	521	1, 040
Died.....	1	2	3
Discharged.....	367	379	746
Transferred.....	154	139	293
Remaining December 31.....	3	4	7
Average number constantly sick.....	3. 90	4. 22	8. 12
Average number of days' treatment per patient.....	2. 73	2. 97	2. 85
Number of days' relief furnished.....	1, 424	1, 542	2, 966

EMPLOYEES SICK IN QUARTERS.

Days' excused for quarters.....	833	57	890
New patients excused for quarters.....	289	12	301
Average number constantly sick.....	2. 28	0. 16	2. 44
Average number of days' treatment per patient.....	2. 88	4. 75	2. 96

BAS OBISPO DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	19,809	14,631	34,440
Nonemployees.....	2,424	1,487	3,911
Total.....	22,233	16,118	38,351

SICK CAMP.

Remaining January 1.....	17	6	23
Admitted.....	891	635	1,526
Died.....	1	1	2
Discharged.....	702	544	1,246
Transferred.....	203	91	294
Remaining December 31.....	2	5	7
Average number constantly sick.....	5.74	4.73	10.47
Average number of days' treatment per patient.....	2.31	2.71	2.48
Number of days' relief furnished.....	2,094	1,726	3,820

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	734	.....	734
New patients excused for quarters.....	251	.....	251
Average number constantly sick.....	2.01	.....	2.01
Average number of days' treatment per patient.....	2.92	.....	2.92

GORGONA DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	21, 312	16, 103	37, 415
Nonemployees.....	6, 726	2, 739	9, 465
Total.....	28, 038	18, 842	46, 880

SICK CAMP.

Remaining January 1.....	1	7	8
Admitted.....	213	461	674
Discharged.....	148	339	487
Transferred.....	66	129	195
Average number constantly sick.....	1. 47	3. 77	5. 24
Average number of days' treatment per patient.....	2. 51	2. 94	2. 81
Number of days' relief furnished.....	537	1, 377	1, 914

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	2, 364	288	2, 652
New patients excused for quarters.....	938	70	1, 008
Average number constantly sick.....	6. 48	0. 79	7. 27
Average number of days' treatment per patient.....	2. 52	4. 11	2. 63

SAN PABLO DISPENSARY, SICK CAMP, AND EM-
PLOYEES IN SICK QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	5, 730	5, 666	11, 396
Nonemployees.....	225	393	618
Total.....	5, 955	6, 059	12, 014

SICK CAMP.

Remaining January 1.....	3	8	11
Admitted.....	442	585	1, 027
Discharged.....	326	423	749
Transferred.....	118	158	276
Remaining December 31.....	1	12	13
Average number constantly sick.....	2. 95	4. 56	7. 51
Average number of days' treatment per patient.....	2. 43	2. 86	2. 67
Number of days' relief furnished.....	1, 078	1, 663	2, 741

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	101	12	113
New patients excused for quarters.....	50	7	57
Average number constantly sick.....	0. 28	0. 03	0. 31
Average number of days' treatment per patient.....	2. 02	1. 71	1. 98

TABERNILLA DISPENSARY, SICK CAMP, AND EM-
 PLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	7, 302	6, 650	13, 952
Nonemployees.....	1, 214	1, 163	2, 377
Total.....	8, 516	7, 813	16, 329

SICK CAMP.

Remaining January 1.....		3	3
Admitted.....	303	797	1, 100
Discharged.....	234	636	870
Transferred.....	64	160	224
Remaining December 31.....	5	4	9
Average number constantly sick.....	2. 20	7. 18	9. 38
Average number of days' treatment per patient.....	2. 70	3. 29	3. 13
Number of days' relief furnished.....	804	2, 619	3, 423

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	415	3	418
New patients excused for quarters.....	137	1	138
Average number constantly sick.....	1. 14	0. 01	1. 15
Average number of days' treatment per patient.....	3. 03	3. 00	3. 03

FRIJOLES DISPENSARY, SICK CAMP, AND EMPLOYEES
SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	1, 134	6, 057	7, 191
Nonemployees.....	16	22	38
Total.....	1, 150	6, 079	7, 229

SICK CAMP.

Admitted.....		26	26
Discharged.....		12	12
Transferred.....		10	10
Remaining December 31.....		4	4
Average number constantly sick.....		0. 11	0. 11
Average number of days' treatment per patient.....		1. 82	1. 82
Number of days' relief furnished.....		40	40

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	29	72	101
New patients excused for quarters.....	21	58	79
Average number constantly sick.....	0. 08	0. 20	0. 28
Average number of days' treatment per patient.....	1. 38	1. 24	1. 28

BOHIO DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	799	4,354	5,153
Nonemployees.....	225	1,023	1,248
Total.....	1,024	5,377	6,401

SICK CAMP.

Admitted.....	12	90	102
Discharged.....	4	43	47
Transferred.....	8	45	53
Remaining December 31.....	.....	2	2
Average number constantly sick.....	0.05	0.26	0.31
Average number of days' treatment per patient.....	1.58	1.08	1.14
Number of days' relief furnished.....	19	95	114

EMPLOYEES SICK IN QUARTERS

Days excused for quarters.....	42	50	92
New patients excused for quarters.....	19	29	48
Average number constantly sick.....	0.12	0.14	0.26
Average number of days' treatment per patient.....	2.21	1.72	1.92

GATUN DISPENSARY, SICK CAMP, AND EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	17, 992	29, 635	47, 627
Nonemployees.....	3, 072	941	4, 013
Total.....	21, 064	30, 576	51, 640

SICK CAMP.

Remaining January 1.....		14	14
Admitted.....	517	3, 205	3, 722
Died.....		1	1
Discharged.....	262	1, 341	1, 603
Transferred.....	251	1, 858	2, 109
Remaining December 31.....	4	19	23
Average number constantly sick.....	2. 82	13. 76	16. 58
Average number of days' treatment per patient.....	2. 00	1. 57	1. 63
Number of days' relief furnished.....	1, 028	5, 021	6, 049

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	1, 240	14	1, 254
New patients excused for quarters.....	620	3	623
Average number constantly sick.....	3. 40	0. 04	3. 44
Average number of days' treatment per patient.....	2. 00	4. 67	2. 01

GATUN SPILLWAY DISPENSARY AND SICK CAMP.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	3, 930	3, 218	7, 148
Total.....	3, 930	3, 218	7, 148

SICK CAMP.

Admitted.....	380	295	675
Discharged.....	245	198	443
Transferred.....	135	97	232
Average number constantly sick.....	2. 16	1. 75	3. 91
Average number of days' treatment per patient.....	2. 07	2. 17	2. 11
Number of days' relief furnished.....	787	640	1, 427

CRISTOBAL DISPENSARY, SICK CAMP, AND EMPLOYEES
SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	19, 152	16, 989	36, 141
Nonemployees.....	5, 108	3, 068	8, 176
Total.....	24, 260	20, 057	44, 317

SICK CAMP.

Remaining January 1.....	.....	6	9
Admitted.....	60	769	826
Discharged.....	53	537	590
Transferred.....	7	228	235
Remaining December 31.....	.....	10	10
Average number constantly sick.....	0. 41	6. 62	7. 03
Average number of days' treatment per patient.....	2. 48	3. 16	3. 11
Number of days' relief furnished.....	149	2, 418	2, 567

CRISTOBAL DISPENSARY, SICK CAMP, AND EMPLOYEES
SICK IN QUARTERS—Continued.

EMPLOYEES SICK IN QUARTERS.

Class.	White.	Black.	Total.
Days excused for quarters.....	4, 768	2, 319	7, 087
New patients excused for quarters.....	1, 843	784	2, 627
Average number constantly sick.....	13. 06	6. 35	19. 41
Average number of days' treatment per patient.....	2. 59	2. 96	2. 70

PORTO BELLO DISPENSARY, SICK CAMP, AND EMPLOY-
EES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	6, 663	7, 023	13, 686
Nonemployees.....	431	231	662
Total.....	7, 094	7, 254	14, 348

SICK CAMP.

Remaining January 1.....	4	2	6
Admitted.....	341	442	783
Died.....	1	1	2
Discharged.....	274	343	617
Transferred.....	62	96	158
Remaining December 31.....	8	4	12
Average number constantly sick.....	3. 99	4. 19	8. 18
Average number of days' treatment per patient.....	4. 32	3. 48	3. 85
Number of days' relief furnished.....	1, 457	1, 531	2, 988

PORTO BELLO DISPENSARY, SICK CAMP, AND EMPLOY-
EES SICK IN QUARTERS—Continued.

EMPLOYEES SICK IN QUARTERS.

Class.	White.	Black.	Total.
Days excused for quarters.....	595	2	597
New patients excused for quarters.....	277	2	279
Average number constantly sick.....	1. 63	0. 01	1. 64
Average number of days' treatment per patient.....	2. 15	1. 00	2. 14

NOMBRE DE DIOS DISPENSARY, SICK CAMP, AND
EMPLOYEES SICK IN QUARTERS.

DISPENSARY.

Class.	White.	Black.	Total.
Employees.....	114	271	385
Nonemployees.....	24	155	179
Total.....	138	426	564

SICK CAMP.

Admitted.....	1	5	6
Discharged.....	1	4	5
Remaining December 31.....		1	1
Average number constantly sick.....	0. 13	0. 20	0. 33
Average number of days' treatment per patient.....	4. 00	1. 80	3. 00
Number of days' relief furnished.....	4	6	10

EMPLOYEES SICK IN QUARTERS.

Days excused for quarters.....	6	18	24
New patients excused for quarters.....	4	10	14
Average number constantly sick.....	0. 19	0. 58	0. 77
Average number of days' treatment per patient.....	1. 50	1. 80	1. 71

NOTE.—Nombre de Dios dispensary and sick camp established December 1, 1909.

BOARD OF HEALTH LABORATORY.

Bacteriological examinations:	
Municipal water supplies.....	193
Water from—	
Springs.....	11
Condensers.....	226
The Colon Steam Bottling Works.....	3
Tank carts.....	58
Creeks.....	7
Reservoirs and rivers.....	74
Demijohns and filters.....	37
Ice plant, Colon.....	1
Gatun storage tank.....	1
Mess hall at Gatun.....	1
Coolers at Gatun.....	3
Ancon filter.....	1
Blood cultures.....	425
Throat cultures (diphtheria suspects).....	189
Nose cultures (diphtheria suspects).....	1
Cultures from autopsies.....	24
Cultures from conjunctiva.....	5
Stools.....	325
Urine.....	368
Sputum.....	21
Pus.....	37
Testicle.....	1
Bile.....	1
Hydrocele fluid.....	2
Kneejoint fluid.....	6
Gall-bladder fluid.....	1
Spleen pulp.....	1
Spinal fluid.....	1
Surgical tissue.....	1
Various smears and specimens.....	45
Kola champagne and soda water.....	2
Catgut sutures.....	1
Glanders suspect.....	1
Milk for tubercular bacilli.....	1
Soil for B. coli.....	12
"Tuberculo-kill" for telephone mouthpiece.....	1
Bacteriological and microscopical examination of urine.....	1
Determinations:	
Carbon dioxide in air of wards.....	7
Manganese in drillings of steam-shovel parts.....	2
Alkalinity in condensed and tap water.....	2
Chlorine content in water.....	126
B. coli, using lactose bile.....	85

Examinations:

Dogs, rabies suspects (post-mortems).....	24
Calves (post-mortems).....	9
Rabbits (post-mortems).....	21
Rats (post-mortems).....	32
Monkey (post-mortem).....	1
Goat (post-mortem).....	1
Leper suspects.....	23
Quinine and urea.....	5
Typhoid-fever carrier suspect.....	1

Chemical examinations:

Candy.....	1
Cementing material.....	2
Crude carbolic acid.....	4
Crude oil.....	3
Fermented cane sirup.....	1
Gasoline.....	1
Ham, for preservatives.....	1
Hatchet, for blood stains.....	1
Iron clay.....	1
Lard.....	1
Liquid from Palo Seco.....	1
Liquid from alcalde of Panama.....	1
Metal, babbitt.....	1
Milk, Blue-label brand.....	1
Mother's milk.....	4
Methyl alcohol.....	6
Lignites.....	3
"Pyramine".....	1
Paint.....	5
Rum.....	4
Stomach contents.....	13
Sand from Panama beach.....	1
Urine.....	2
Vanilla extract.....	1
Water, reservoir.....	50
Wood alcohol.....	43

Agglutination reactions.....	79
Autopsies.....	285
Medico-legal post-mortems.....	6
Sections of tissue prepared (paraffin).....	8, 248
Sections of tissue prepared (frozen).....	103
Surgical pathological tissue and neoplasms reported.....	122
Bodies embalmed.....	59
Preventive treatment for hydrophobia completed.....	11
Sanitary analyses of water.....	114
Toxicological examination.....	1
Qualitative analysis of cylinder oil.....	1
Microscopical examinations of water.....	86

ISSUES OF QUININE.

Months.	Kilograms.	Pounds avoirdupois.
January.....	230. 555	508. 281
February.....	60. 100	132. 496
March.....	221. 200	487. 658
April.....	29. 805	65. 708
May.....	16. 061	35. 408
June.....	172. 552	380. 408
July.....	54. 675	120. 537
August.....	87. 600	193. 123
September.....	184. 600	406. 969
October.....	61. 675	135. 968
November.....	46. 225	101. 907
December.....	262. 900	579. 590
Total.....	1, 427. 948	3, 148. 053
Average per month.....	118. 995	262. 337

SANITATION—PANAMA.

Anopheles brigade:

Linear feet of ditches cleaned.....	2, 075, 810
Linear feet of ditches dug.....	5, 650
Square feet of weeds and grass cut and removed....	1, 961, 395
Cesspools cleaned.....	264
Loads of refuse removed from the city.....	3, 932

Disinfection brigade:

Houses disinfected and fumigated—

For beriberi.....	24
For diphtheria.....	4
For hemoglobinuric fever.....	1
For typhoid fever.....	1
For blackwater fever.....	1
For pernicious fever.....	71
For tuberculosis.....	84

Number of cubic feet disinfected and fumigated.... 4, 902, 700

Houses fumigated for chicken pox..... 9

Material used:

Alcohol, wood.....	gallons..	53
Axle grease.....	pounds..	10
Brooms.....	number..	24
Bichloride of mercury.....	pounds..	15
Chloride of lime.....	do.....	2, 697

Material used—Continued.

Crude oil.....	barrels..	17, 500
Flour.....	do.....	5
Kerosene oil.....	gallons..	338
Larvacide.....	do.....	1, 495
Matches.....	packages..	82
Mops.....	number..	24
Nails.....	pounds..	47
Newspapers.....	bundles..	17
Paper, manila.....	rolls..	1
Pyrethrum.....	pounds..	523
Sulphur.....	do.....	3, 860
Sulphur, flowers of.....	barrels..	3
Tacks.....	papers..	64
Destruction of dogs:		
Number of dogs poisoned.....		673
Strychnine used.....	grams..	144
Beef used.....	pounds..	62
Destruction of rats:		
Number of rats caught and killed.....		17, 004
Average number of rat traps in use.....		347
Poison used.....	boxes..	341
Bread used.....	pounds..	362
Cheese used.....	do.....	412
Sausage used.....	do.....	160
Inspection of houses and yards:		
Houses with no water connection.....	times inspected..	1, 026
Houses with no sewer connection.....	do.....	971
Traps in yards not connected with sewer.....	do.....	385
Water-closets, bad condition.....	do.....	716
Houses with no water-closets.....	do.....	855
Houses with open cesspool closets.....	do.....	95
Yards with bad drainage.....	do.....	928
Houses and yards inspected.....		32, 860
Houses and yards found in good condition.....		29, 197
Persons notified to keep premises in good condition.....		1, 641
Yards not cemented.....		965
Persons warned for having mosquito larvæ on premises.....		665
Places where mosquito larvæ were found.....		667
Number of inspection reports of defective sewer and water connections forwarded to superintendent of public works.....		10
New buildings: Number of plans submitted to health officer and approved.....		335

SANITATION—COLON.

[Including Cristobal and Mount Hope.]

Medical inspection:	
Number of cases reported by medical inspectors....	110
Number of cases inspected.....	110
Number of cases sent to hospital.....	69
Water and sewers:	
Number of connections made during the year.....	90
Total number of connections made to date.....	546
Number of houses remaining to be connected.....	8
Number of outstanding permits.....	23
Houses:	
Plans approved.....	77
Permits to repair issued.....	202
Permits to occupy issued.....	48
Temporary permits to occupy issued.....	17
Number of houses in which defective plumbing fixtures were found and reported to the superintendent of public works.....	1, 181
Sanitation of Colon:	
Number of loads of yard garbage removed.....	2, 164
Average number of cans of garbage removed daily..	3, 433
Number of—	
Acres of vegetation removed.....	460
Acres of streets cleaned.....	2, 622
Acres of streets sprinkled.....	416
Private properties cleaned.....	2, 284
Square yards of pools oiled.....	60, 612
Crab holes oiled.....	7, 600
Crab holes worked.....	224, 220
Mosquito-breeding places found.....	2, 776
Dogs killed.....	66
Rats killed.....	7, 284
Horses cremated.....	22
Water receptacles treated.....	1, 319, 514
Linear feet of ditches constructed.....	25, 250
Cubic yards of ditches constructed.....	6, 554
Linear feet of ditches maintained.....	366, 528
Notices to abate nuisances served.....	4, 677
Number of nuisances abated.....	3, 617
Sanitation of Cristobal:	
Number of—	
Square yards of pools oiled.....	22, 851
Water receptacles treated.....	129, 210
Mosquito-breeding places found.....	398
Crab holes worked.....	43, 200
Linear feet of ditches maintained.....	2, 467
Linear feet of ditches constructed.....	15

Sanitation of Mount Hope:

Number of—

Square yards of pools oiled.....	53, 658
Water receptacles treated.....	118, 895
Linear feet of ditches maintained.....	155, 414
Crab holes worked.....	73, 229
Mosquito-breeding places found.....	1, 741
Linear feet of ditches constructed.....	2, 265
Cubic feet of fumigation.....	156, 400
Mount Hope cemetery maintained.	

SANITATION—BOCAS DEL TORO.

General cleaning:

Square yards of streets cleaned.....	10, 300
Linear yards of water front cleaned.....	1, 700
Yards cleaned.....	254
Yards inspected.....	1, 400
Houses inspected.....	1, 020
Barrels of garbage removed.....	42, 880
Loads of garbage removed.....	701
Loads of old lumber removed.....	91
Loads of sand carted.....	303
Loads of grass removed.....	32
Persons notified to keep yard in sanitary condition.....	255
Persons warned for breeding mosquitoes.....	108
Persons fined for breeding mosquitoes.....	20
Persons fined for other sanitary violations.....	7
Nuisances reported.....	48
Nuisances abated.....	15
Plans for closets approved.....	2

Mosquito brigade:

Square yards of swamp filled.....	90
Square yards of swamp drained.....	6, 960
Cubic yards of sand used.....	119
Square yards of pools oiled.....	900
Square yards of grass cut and burned.....	340
Linear feet of drain made.....	991
Linear feet of drain cleaned.....	690
Roof gutters repaired.....	43
Water receptacles overturned.....	554
Breeding places found in barrels, tubs, etc.....	158
Catch basins of sewers oiled.....	36
Wells oiled.....	34
Wells filled.....	8
Wells re-covered.....	2
Barrels covered.....	883
Barrel covers made.....	863

Mosquito brigade—Continued.

Barrels repaired.....	920
Barrels broken up.....	56
Barrels overturned.....	74
Barrels supplied with spigots.....	663
Tanks screened and repaired.....	286
Tanks cleaned.....	3
Tanks oiled.....	2
Tanks covered.....	4
Minimum number of men at work for one day.....	7
Maximum number of men at work for one day.....	16
Average number of men at work for one day.....	14
Material used:	
Spigots..... number..	453
Copper cloth (screening)..... rolls..	18.4
Wire netting ($\frac{1}{2}$ -inch)..... do.....	10.6
Mosquito oil..... barrels..	8
Lumber..... square feet..	2, 200
Tacks, copper..... pounds..	80
Staples, wire..... do.....	27
Nails, wire..... kegs..	3.25
Solder..... pounds..	4
Acid, muriatic..... ounces..	4
Turpentine..... gallons..	3
Scrubbing brushes..... number..	2

NOTE.—This office was closed March 27, 1909.

QUARANTINE SERVICE.

PANAMA-ANCON AND COLON-CRISTOBAL.

Number of vessels inspected and passed.....	1, 000
Number of vessels passed on certificate of medical officer (Pacific Squadron).....	8
Number of:	
Vessels detained in quarantine.....	17
Vessels fumigated on arrival.....	45
Vessels fumigated prior to sailing.....	19
Pieces of baggage disinfected.....	2, 833
Crew inspected.....	75, 275
Crew not examined (Pacific Squadron).....	7, 500
Passengers inspected.....	54, 439
Total number of persons inspected.....	129, 714
Number of persons vaccinated at ports of arrival because of compulsory-vaccination law.....	13, 674
Number of persons vaccinated at ports of departure or en route because of compulsory-vaccination law.....	16, 180

Number of persons held in quarantine at the detention stations to complete period of incubation of yellow fever and plague.....	4,799
Number of persons detained at quarantine stations to complete period of incubation of smallpox.....	15
Number of persons held under observation on board vessels to complete period of incubation of yellow fever and plague.....	8,023
Number of persons held in quarantine on board vessels to complete period of incubation of smallpox.....	66
Total number of persons held under observation.....	12,903
Number of persons landed from foreign ports:	
Cabin.....	18,930
Steerage.....	22,851
	41,781
Number of persons embarked for foreign ports:	
Cabin.....	15,316
Steerage.....	13,445
	28,761
Apparent increase for the year from foreign ports:	
Cabin.....	3,614
Steerage.....	9,406
	13,020
Number of persons arriving from coast towns on small craft.....	23,799
Number of persons embarked for coast towns on small craft.....	19,002
Apparent increase for the year from coast towns.....	4,797
Number of:	
Immigrants recommended for rejection.....	75
Certificates issued to outgoing passengers.....	413
Persons refused certificates because of trachoma.....	26
Bills of health viséed.....	478
Circulars relative to malaria distributed.....	2,900
Total number of persons landed.....	65,580
Total number of persons embarked.....	47,763
Total apparent increase for the year.....	17,817

BOCAS DEL TORO.

Number of vessels inspected and passed.....	453
Number of crew inspected.....	10,059
Number of passengers inspected.....	4,861
Number of persons held to complete period of incubation of yellow fever.....	60

PERSONNEL REPORT.

[Average number of employees at work during the year.]

Chief sanitary office.....	33
Property division.....	9
Quarantine service.....	35
Health office:	
Panama.....	55
Colon.....	95
Director of hospitals.....	31
Ancon hospital.....	509
Colon hospital.....	125
Santos Tomas hospital.....	5
Taboga sanitarium.....	26
Palo Seco leper asylum.....	11
Zone sanitation.....	189
Dispensaries:	
Ancon.....	4
Balboa.....	4
Bas Obispo.....	10
Bohio.....	4
Corozal.....	3
Cristobal.....	9
Culebra.....	14
Empire.....	11
Gatun.....	15
Gorgona.....	9
Las Cascadas.....	8
Miraflones.....	4
Nombre de Dios.....	3
Paraiso.....	6
Pedro Miguel.....	5
Porto Bello.....	4
San Pablo.....	4
Tabernilla.....	4
Total.....	1,244

HOSPITAL CASES OF MALARIA AMONG EMPLOYEES.

Months	Discharged.		Died.			Total cases.	Annual average per 1,000 of deaths.	Annual average per 1,000 of cases.	Number of employees.
	W.	B.	W.	B.	Total.				
January.....	688	564	5	1	6	1,258	1.69	354	42,607
February....	505	343	2	2	4	852	1.11	236	43,267
March.....	369	293	3	1	4	666	1.09	182	43,825
April.....	241	292	2	.....	2	535	.52	139	46,221
May.....	271	313	1	.....	1	585	.26	149	46,974
June.....	275	467	1	.....	1	743	.25	188	47,493
July.....	326	619	1	.....	1	946	.26	247	45,875
August.....	296	611	1	1	2	909	.48	222	49,020
September..	329	634	4	3	7	970	1.72	238	48,888
October.....	329	740	.....	5	5	1,074	1.18	254	50,641
November..	371	485	1	2	3	859	.68	196	52,643
December...	325	443	1	3	4	772	.99	191	48,544
Total	4,325	5,804	22	18	40	10,169	.85	215	47,167

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